

# INTERNATIONAL SEARCH REPORT

Inte 1st Application No  
PCT/NL2005/000147

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12P5/00 C12P7/42 C12M1/00 B01D11/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12P C12M B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, FSTA, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	STARK-ET AL: "In situ product removal (ISPR) in whole cell biotechnology during the last twenty years" ADVANCES IN BIOCHEMICAL ENGINEERING/BIOTECHNOLOGY, vol. 80, 2003, pages 149-175, XP009043803 * See page 156 (Table 2 / part), page 159 (Figure 1) and page 163 (top) *	1-11
Y	WO 02/16030 A (AKZO NOBEL) 28 February 2002 (2002-02-28) cited in the application * Compare page 5, lines 20-22, of the Application; Claims 1 and 11 *	1-11
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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Date of the actual completion of the international search

1 August 2005

Date of mailing of the international search report

11/08/2005

Name and mailing address of the ISA

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	EP 1 306 128 A (TENAXIS) 2 May 2003 (2003-05-02) * See '0024!, '0027!, '0030! - '0032!, '0034 / porous!, '0047 - 0048 / density!, '0056!, '0059!, '0060!, '0061 / flotation! as well as Examples *	1-11
A	STARK ET AL: "Novel type of in situ extraction: Use of solvent containing microcapsules for the bioconversion of 2-phenylethanol from L-phenylalanine by Saccharomyces cerevisiae" BIOTECHNOLOGY AND BIOENGINEERING, vol. 83, 2003, pages 376-385, XP002293121 * See page 376 (Abstract); page 377 (left column, last paragraph - right column, top) *	1-11
A	EINICKE ET AL: "In-situ recovery of ethanol from-fermentation broth by hydrophobic adsorbents" ACTA BIOTECHNOLOGICA, vol. 11, 1991, pages 353-358, XP002338518 * See page 354 *	1-11
P,X	WALPOT: "In-situ product recovery (ISPR) in bioproduction" December 2004 (2004-12), pages 1-16, XP002338519 Delft, The Netherlands (?) Retrieved from the Internet: URL: <a href="http://www.tno.nl/kwaliteit_van_leven/toegepaste_biotechnologie/bioconversie_2/1nsitu_product_recovery_(/publicaties/Prese ntatie_in_situ_product_recovery_ISPR.pdf">http://www.tno.nl/kwaliteit_van_leven/toegepaste_biotechnologie/bioconversie_2/1nsitu_product_recovery_(/publicaties/Prese ntatie_in_situ_product_recovery_ISPR.pdf</a> 'retrieved on 2005-07-28! * TNO Presentation on 07.12.04; see page 11 (SISCA) *	1-11

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Int. application No.  
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			AU 8980801 A	04-03-2002
			WO 0216030 A1	28-02-2002
			EP 1309401 A1	14-05-2003
			JP 2004506510 T	04-03-2004
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			EP 1441849 A1	04-08-2004
			US 2005013788 A1	20-01-2005

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